

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-12. (Cancelled).

13. (New) An optical functional unit comprising:

an optical functional element;

a housing enclosing the optical functional element; and

a lens system, the optical functional element operating with the lens system, wherein one of (a) an object-side part of the lens system acting as an optical lens and (b) the entire lens system of the unit is an integral component of the housing of the unit.

14. (New) The unit according to claim 13, wherein the unit is a sensor device and the functional element includes a radiation-sensitive sensor surface, which is designed to detect electromagnetic radiation from a frequency section of the spectral range including at least one of a near infrared range and a visible range, the frequency section having a predefined width and position.

15. (New) The unit according to claim 13, wherein the unit is a subunit for use in a passenger compartment of a motor vehicle.

16. (New) The unit according to claim 13, wherein the one of (a) the part of the lens system acting as an optical lens and integrated into the housing and (b) the entire lens system integrated into the housing is transparent to a frequency section, whose position and width are predetermined, and which is of electromagnetic radiation from a near infrared range, and is opaque to a visible range.

17. (New) The unit according to claim 13, wherein a housing part containing at least part of the lens system is made using injection molding technology.

18. (New) The unit according to claim 13, wherein a housing part containing at least part of the lens system is part of an interior lining of a motor vehicle.

19. (New) The unit according to claim 13, wherein the functional element includes an artificial light source.

20. (New) The unit according to claim 19, wherein the light source is a light emitting diode.

21. (New) The unit according to claim 19, wherein the light source is a diode emitting infrared light.

22. (New) A housing for an optical unit comprising:

a housing unit enclosing an optical functional element, the optical functional element operating with a lens system, wherein one of (a) an object-side part of the lens system acting as an optical lens and (b) the entire lens system is an integral component of the housing unit.

23. (New) A range video system comprising an optical sensor device, the optical sensor device including:

an optical functional element;

a housing enclosing the optical functional element; and

a lens system, the optical functional element operating with the lens system, wherein one of (a) an object-side part of the lens system acting as an optical lens and (b) the entire lens system of the device is an integral component of the housing of the device.

24. (New) The range video system according to claim 23, wherein the system is used in a motor vehicle.

25. (New) A camera system comprising an optical sensor device, the optical sensor device including:

an optical functional element;

a housing enclosing the optical functional element; and

a lens system, the optical functional element operating with the lens system, wherein one of (a) an object-side part of the lens system acting as an optical lens and (b) the entire lens system of the device is an integral component of the housing of the device.

26. (New) The camera system according to claim 25, wherein the camera system is a stereo camera system.

27. (New) The camera system according to claim 25, wherein the system is used in a motor vehicle.